DOCUMENT RESUME

ED 327 155 IR 014 779

AUTHOR Kerlin, James
TITLE Public Microcomputer Laboratories: Issues-Problems-Solutions.
INSTITUTION Pennsylvania State Univ., University Park. Center for Academic Computing.
PUB DATE 90
NOTE 83p.
PUB TYPE Guides - Classroom Use - Guides (For Teachers) (052) -- Audiovisual Materials (100) -- Reports - Descriptive (141)

EDRS PRICE MF01/PC04 Plus Postage.
DESCRIPTORS *Computer Centers; *Computer Uses in Education; *Educational Resources; Higher Education; Institutional Characteristics; *Microcomputers; State Universities; Transparencies
IDENTIFIERS *Pennsylvania State University

ABSTRACT

This document contains over 60 masters for creating overhead transparencies providing information on the Pennsylvania State University system and, in particular, the resources available for academic computing. The masters are presented in six categories: (1) Penn State; (2) Computer and Information Systems; (3) Center for Academic Computing; (4) Microcomputer Laboratories; (5) Student Support Initiative; and (6) Strategic Planning. The document also includes campus and state maps, administrative structure charts, lists of available hardware and printers in the computer laboratories, charts depicting the average usage of the computer laboratory by day, time of day, and week, and file conversion information. (DB)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****

ED327155

U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement
EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

☐ This document has been reproduced as received from the person or organization originating it.

☐ Minor changes have been made to improve reproduction quality.

• Points of view or opinions stated in this document do not necessarily represent official OERI position or policy.

PUBLIC MICROCOMPUTER LABORATORIES ISSUES-PROBLEMS-SOLUTIONS

JAMES KERLIN

CENTER FOR ACADEMIC COMPUTING

PENNSYLVANIA STATE UNIVERSITY
UNIVERSITY PARK, PENNSYLVANIA

IR 014779

PENNSTATE

"PERMISSION TO REPRODUCE THIS MATERIAL HAS BEEN GRANTED BY

James Kerlin

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."

BEST COPY AVAILABLE

OUTLINE

I. PENN STATE

II. COMPUTER & INFORMATION SYSTEMS

III . CENTER FOR ACADEMIC COMPUTING

IV. MICROCOMPUTER LABORATORIES

V. STUDENT SUPPORT INITIATIVE

PENNSTATE

OUTLINE

VI. STRATEGIC PLANNING

PENNSTATE

PENN STATE

FOUNDED 1855

PENNSYLVANIA'S LAND GRANT INSTITUTION

23 CAMPUSES

12 ACADEMIC COLLEGES

170 BACCALAUREATE DEGREES

PENNSTATE

PENN STATE

ONE OF EVERY 700 AMERICANS IS A PENN STATER

ONE OF EVERY 70 PERSONS IN PA IS A PENN STATER

ONE OF EVERY 100 PERSONS IN THE USA WITH A BACHELORS DEGREE OR HIGHER IS A PENN STATER

PENNSTATE

PENN STATE

3RD INDUSTRIAL FUNDED RESEARCH

19TH FEDERAL FUNDED RESEARCH

4,500 FACULTY

9,100 GRADUATE STUDENTS

70,000 FULL TIME STUDENTS

PENNSTATE

PENN STATE

+$1 BILLION BUDGET

25 EDUCATION ABROAD PROGRAMS

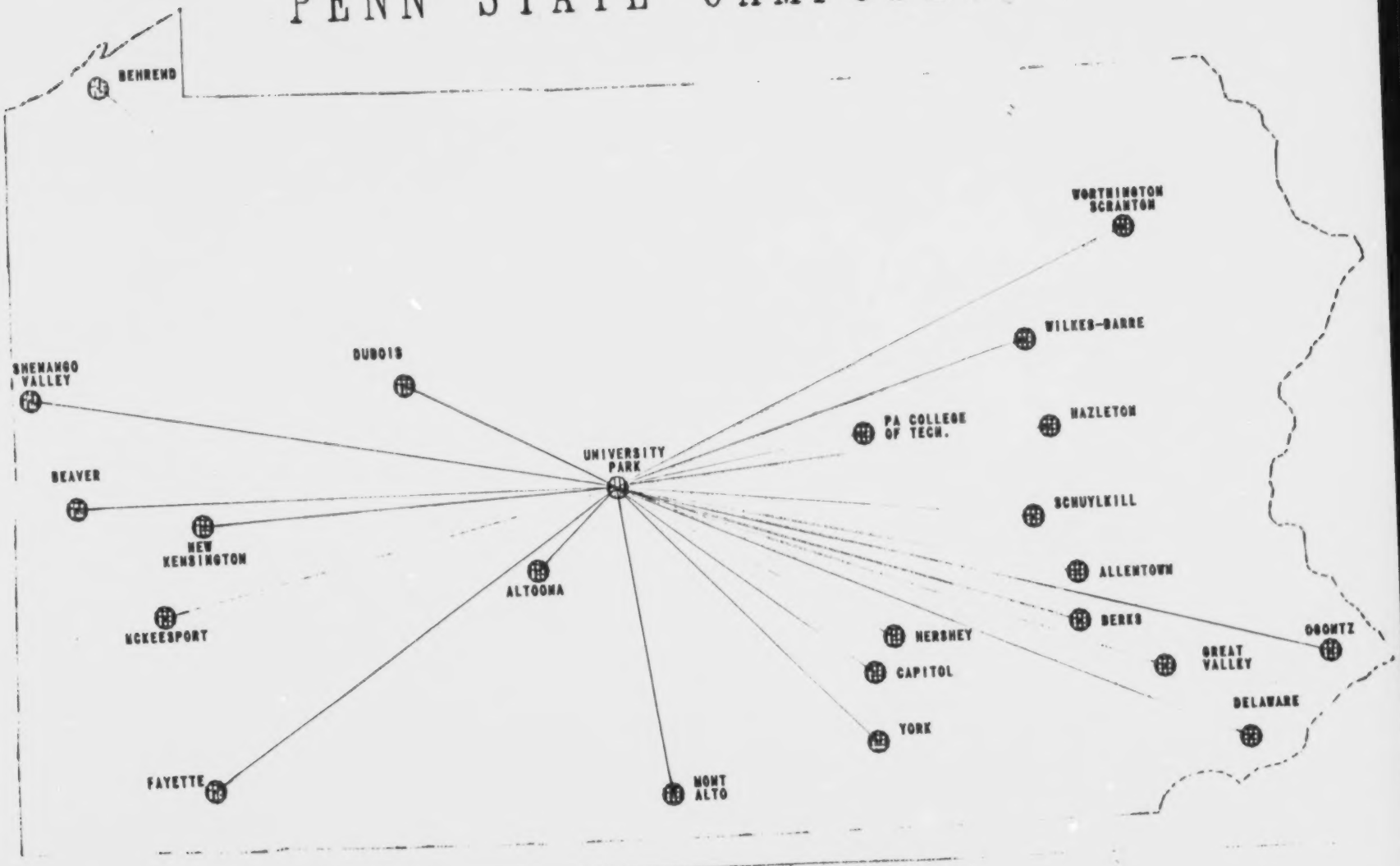
COOPERATIVE EXTENSION SERVICES
67 PA COUNTIES

16,813 ACRES OF LAND

19TH LARGEST LIBRARY IN USA

PENNSTATE

PENN STATE CAMPUSES



ORGANIZATION

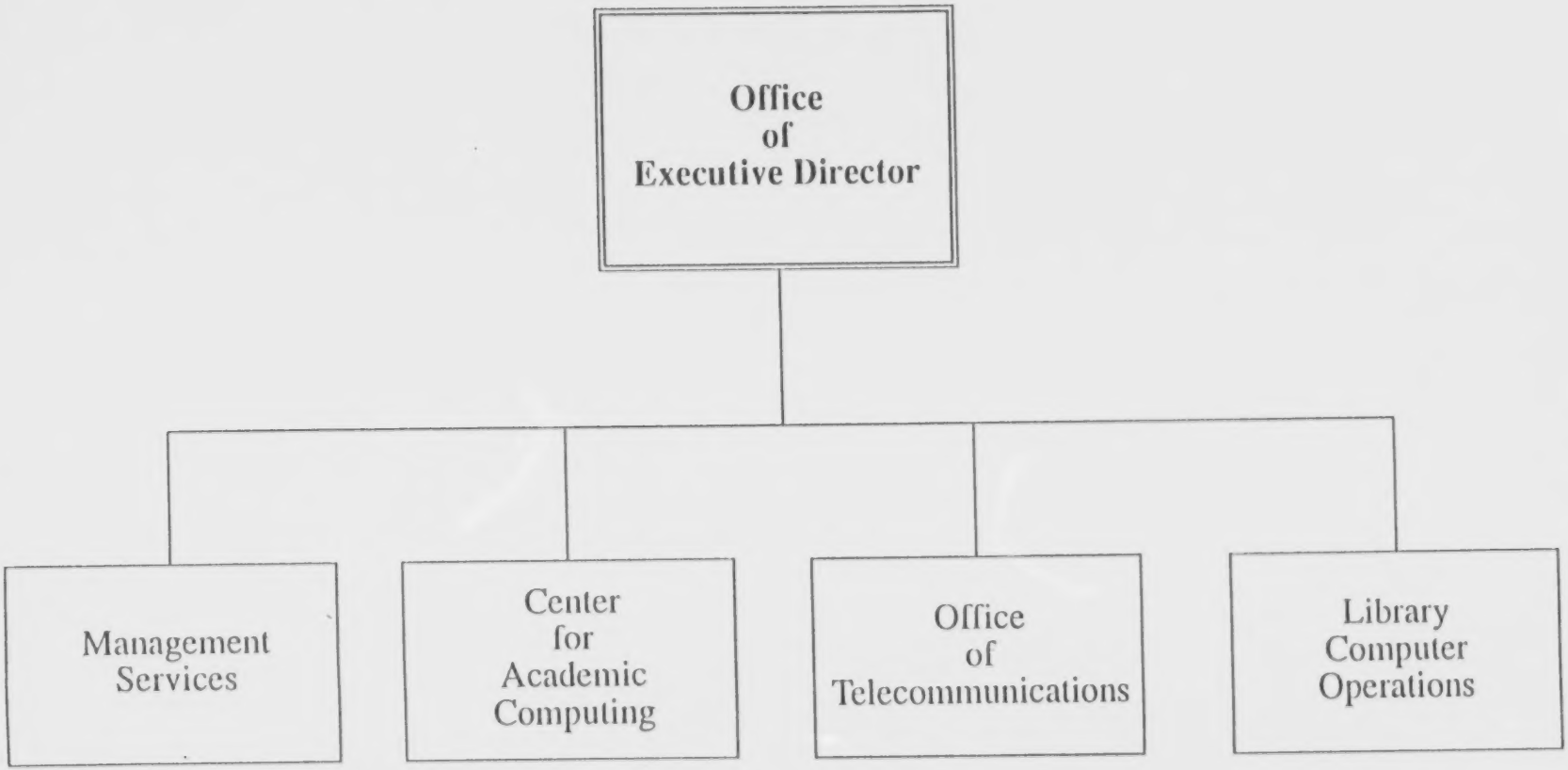
COMPUTER AND INFORMATION SYSTEMS

CENTER FOR ACADEMIC COMPUTING

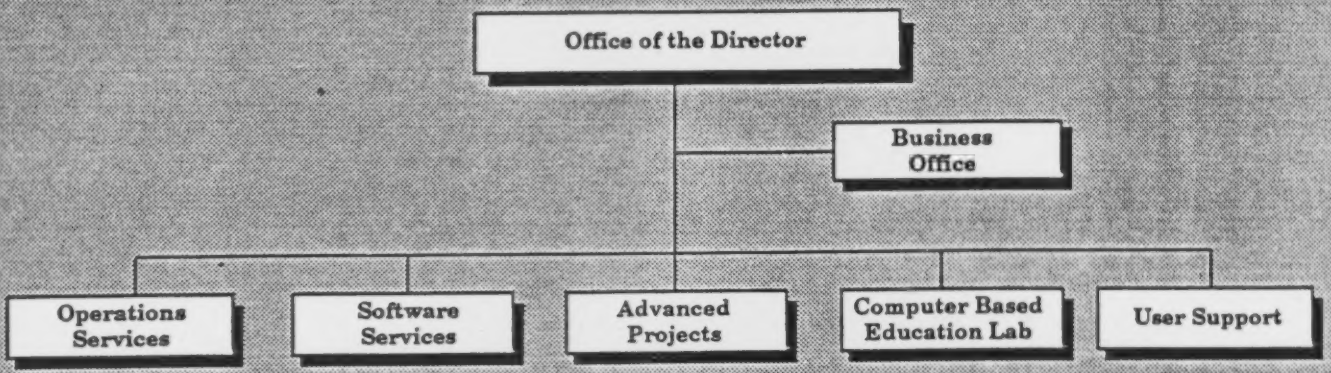
- OFFICE OF THE DIRECTOR
- OPERATIONS
- COMPUTER BASED EDUCATION LAB
- USER SUPPORT
- SOFTWARE
- ADVANCED PROJECTS

PENNSTATE

Computer & Information Systems



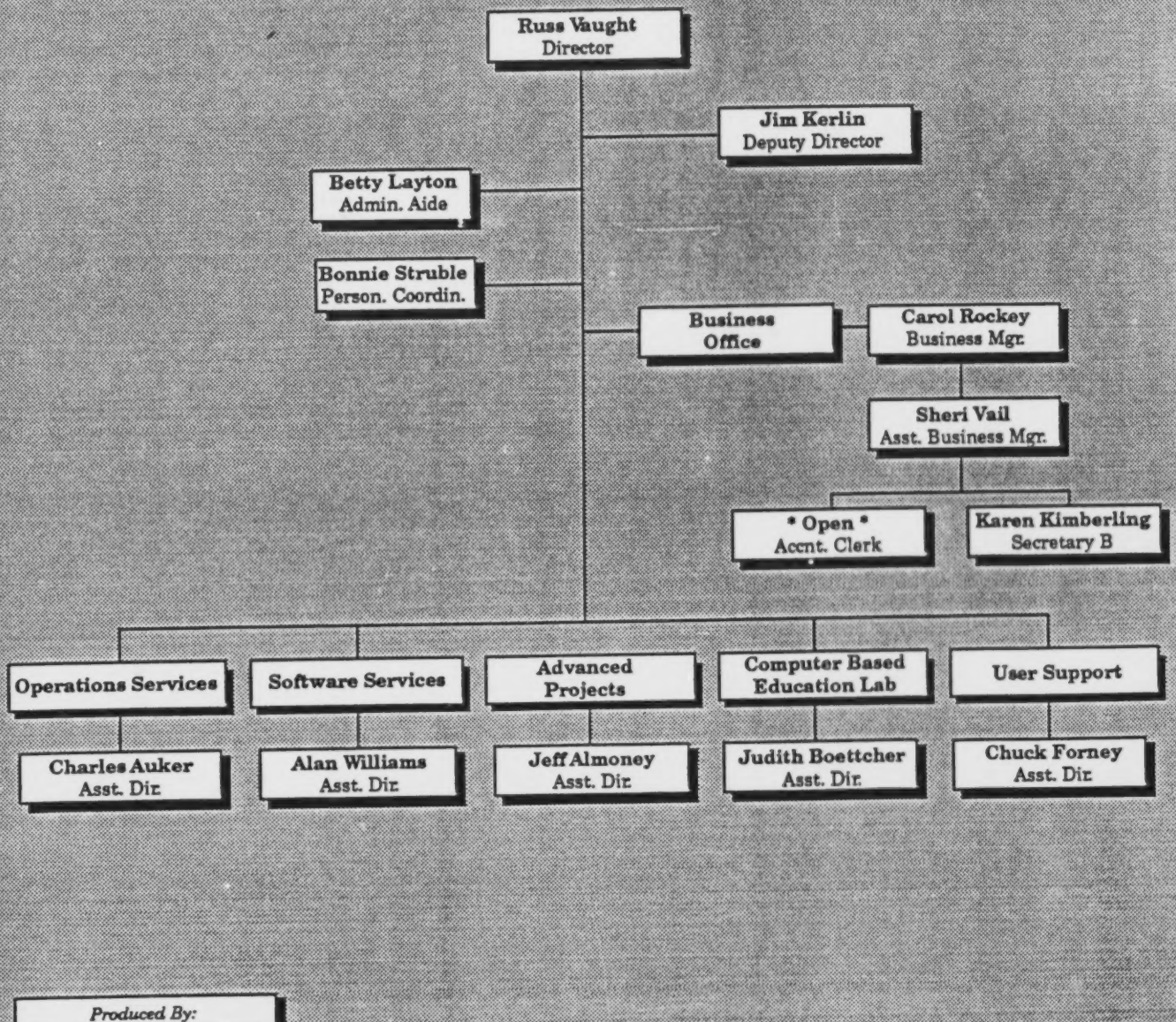
Center for Academic Computing



Produced By:
Education & Publications

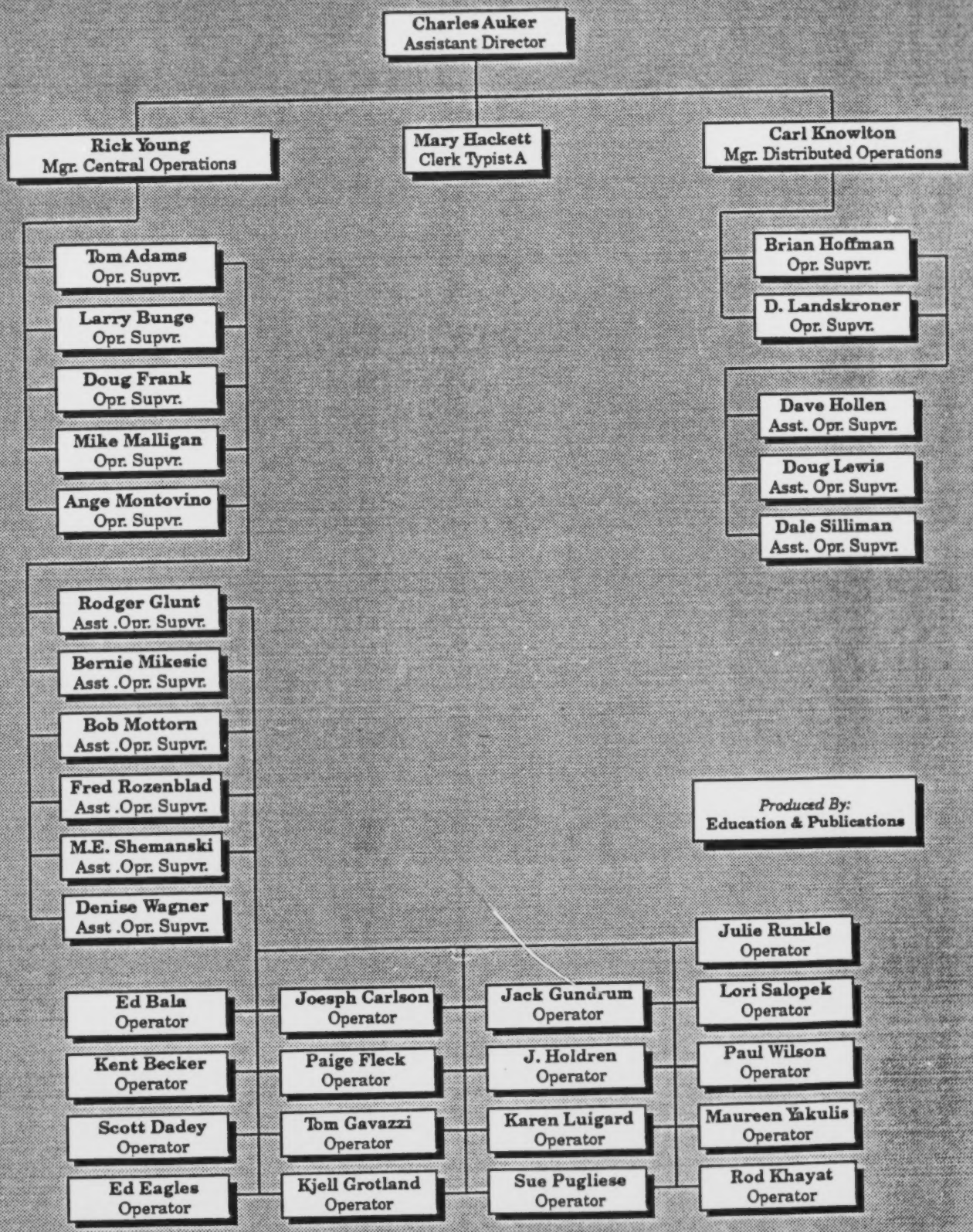
APRIL 20, 1990

Office of the Director

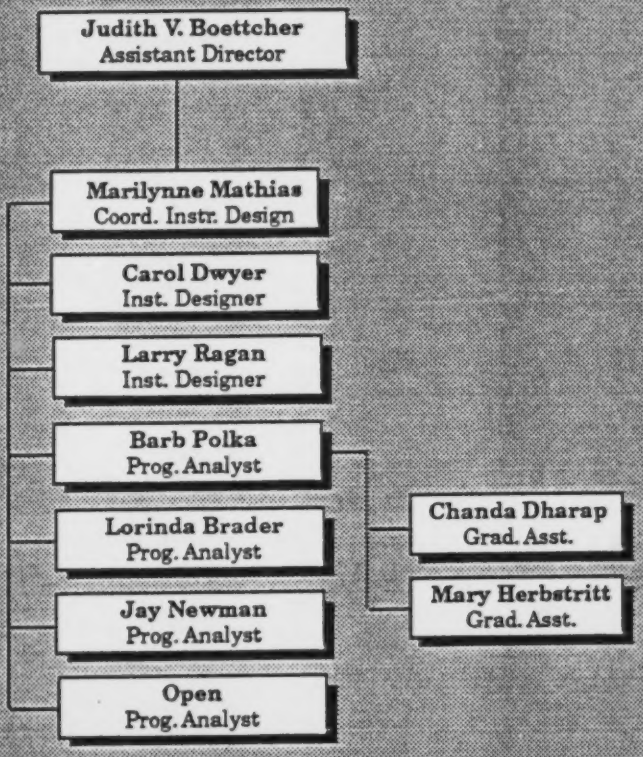


Produced By:
Education & Publications

Operations Services

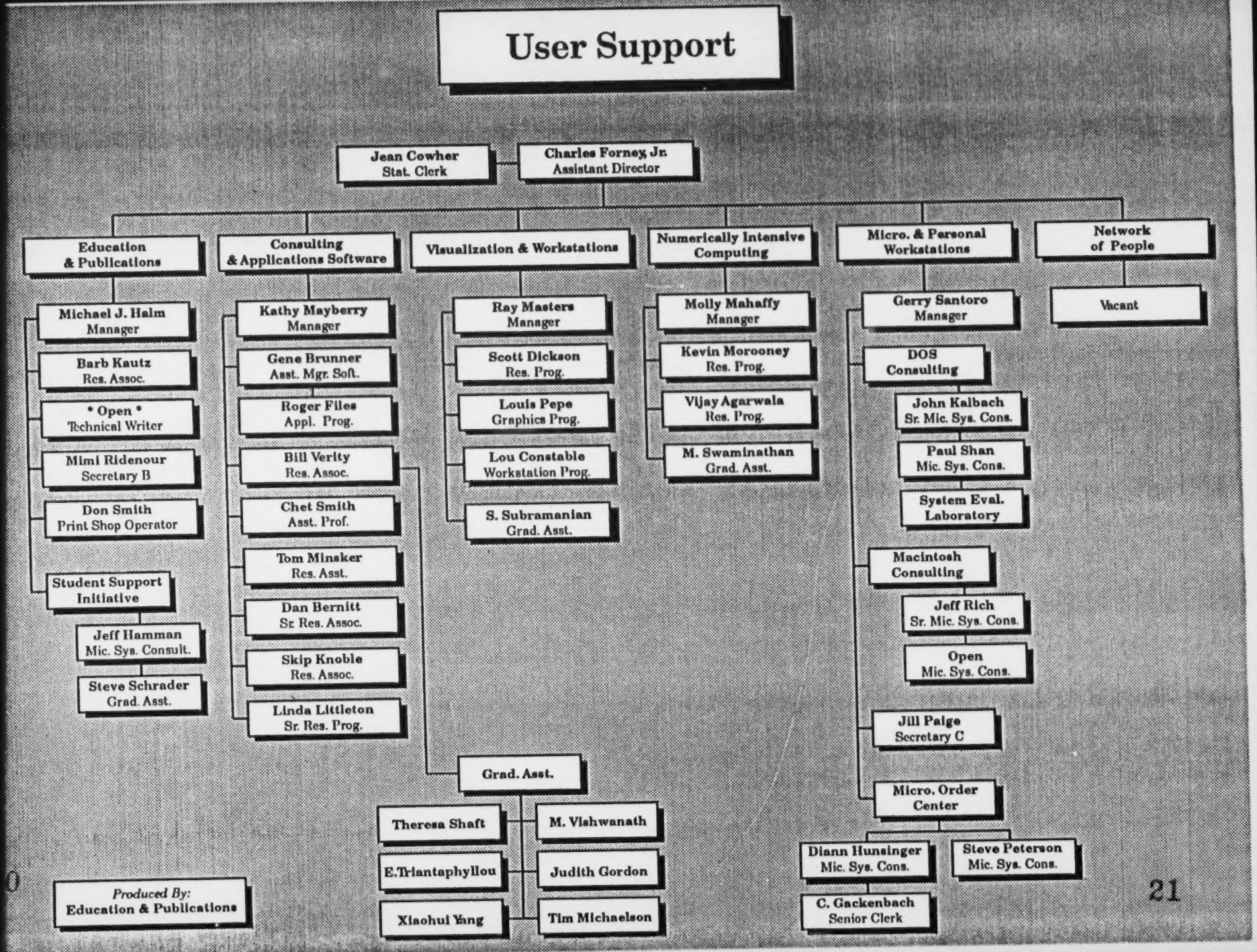


Computer-Based Education Laboratory



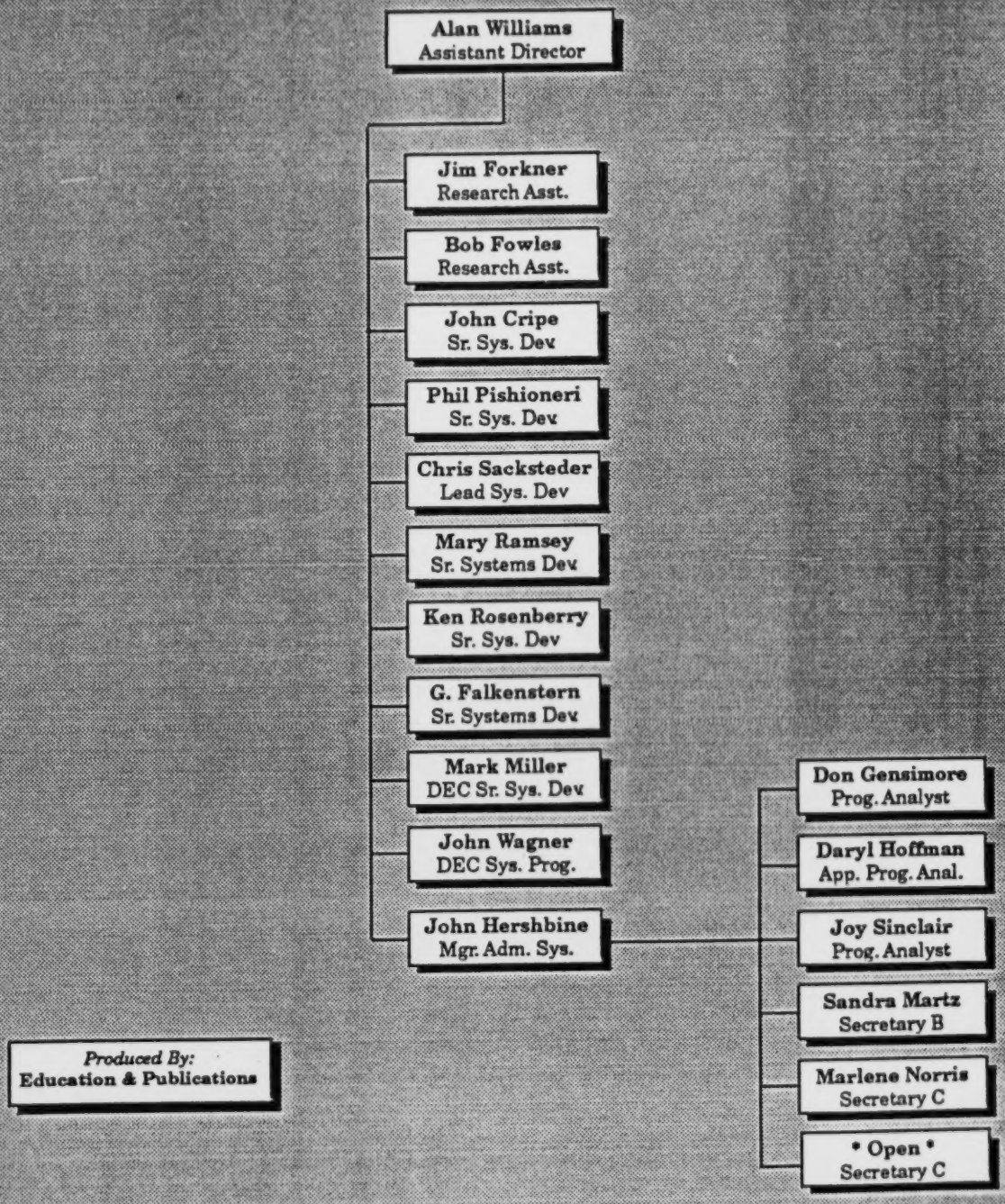
Produced By:
Education & Publications

User Support



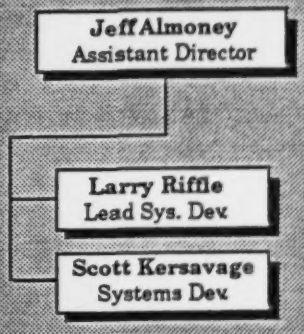
Produced By:
Education & Publications

Software Services



Produced By:
Education & Publications

Advanced Projects



Produced By:
Education & Publications

CENTER FOR ACADEMIC COMPUTING

110 FULL TIME STAFF

IBM MAINFRAME

- 600S
- 6 CPUS
- 6 VECTORS
- 160 GB STORAGE
- 120 MIPS
- 180 MFLOPS

PENNSTATE

CENTER FOR ACADEMIC COMPUTING

LINKS TO ALL CAMPUSES

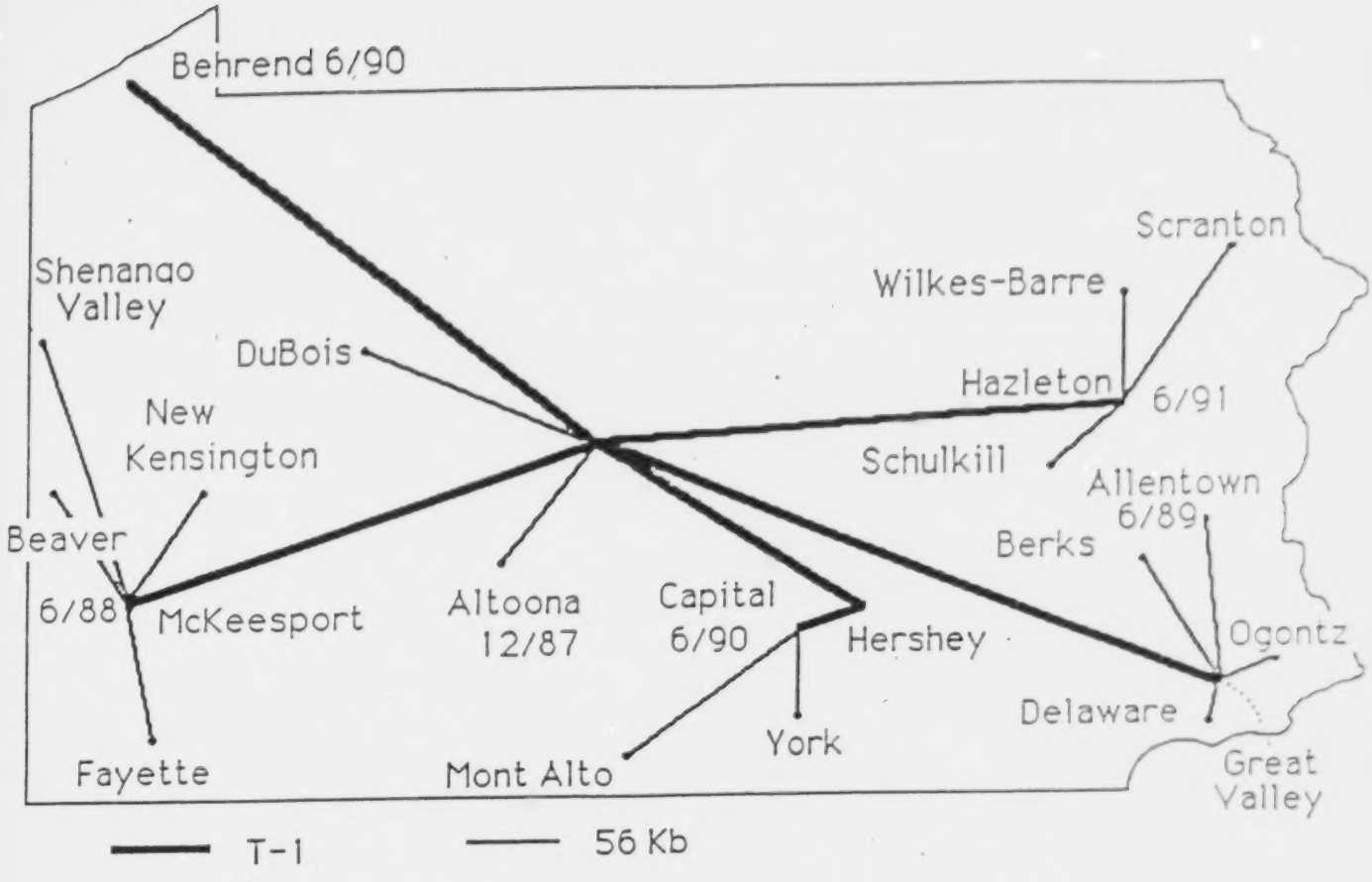
- T1
- SATELLITE
- COMPRESSED VIDEO
- 56KB

2700 WORKSTATIONS

PENNSTATE

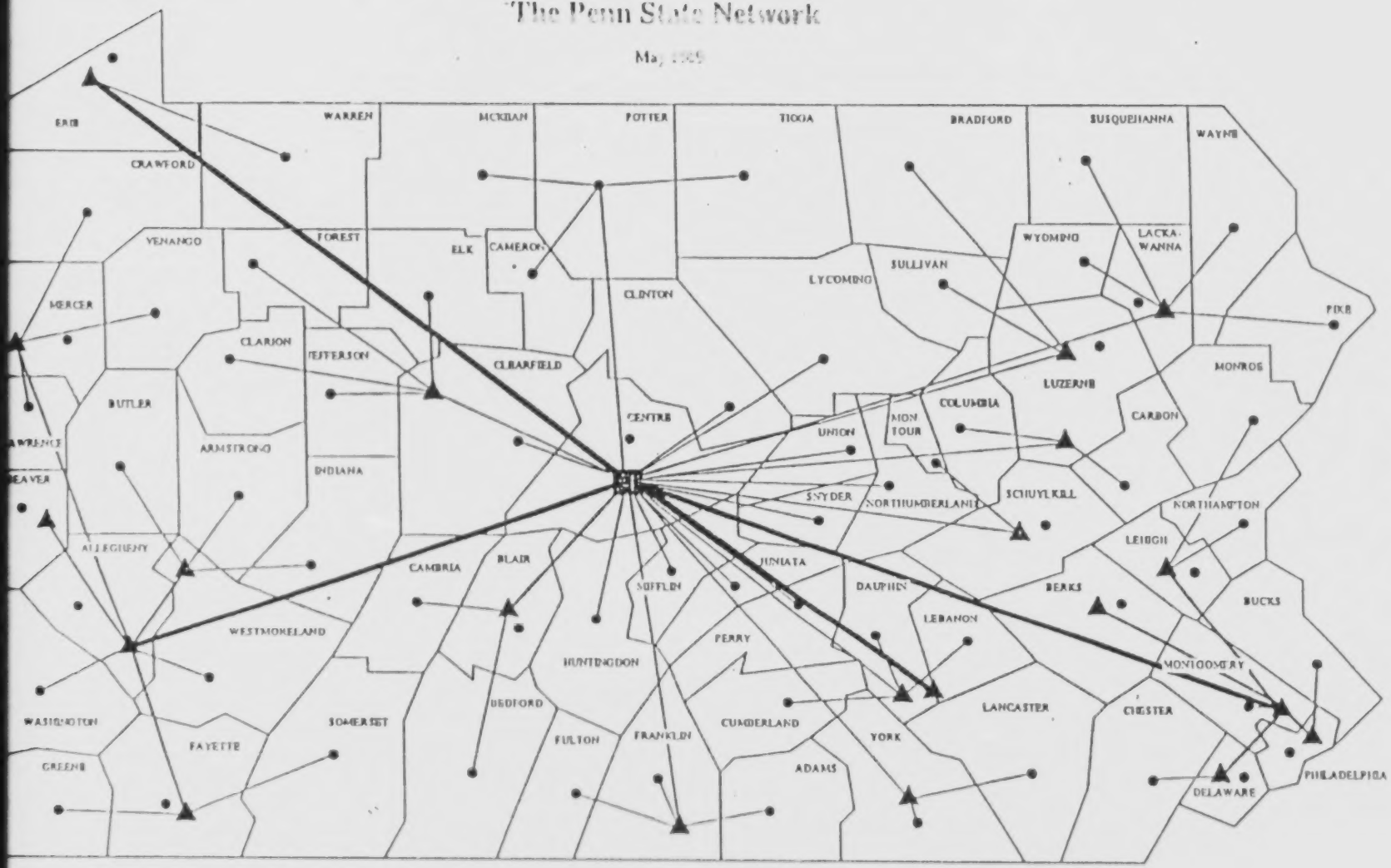
The Penn State Network

June 1991



The Penn State Network

May, 1989



Legend:

- T1 Circuit
- 56 Kbs Circuit
- 9600 bps Circuit
- University Park
- Commonwealth Campus
- County Extension Office

CENTER FOR ACADEMIC COMPUTING

54 LABORATORIES

- TEACHING
- PUBLIC
- HIGH FUNCTION
- SYSTEMS EVALUATION
- DEPARTMENTAL
- SPECIALIZED

MICROCOMPUTER LABORATORIES

FREE OF CHARGE TO UNIVERSITY COMMUNITY

2700 WORK STATIONS

54 LABORATORIES

TERMINALS CONNECTED TO THE IBM MAINFRAME

IBM PCS AND COMPATIBLES

APPLE MACINTOSH COMPUTERS

MICROCOMPUTER LABORATORIES
INSTRUCTIONAL USE

ENGLISH WRITING

3,500 STUDENTS/SEMESTER

COMPUTING IN BUSINESS

400 STUDENTS/SEMESTER

47 COURSES AT LAST COUNT

MATH, AGRICULTURE, ENGINEERING, ETC

MICROCOMPUTER LABORATORIES

HOW DEVELOP LABS

FIND SPACE

- DONATED
- COOPERATIVE AGREEMENTS

FACILITY MANAGE

- PUBLIC HOURS

CENTRAL FUNDING

PENNSTATE

MICROCOMPUTER LABORATORIES

HOW DEVELOP LABS

JOINT FUNDING

PENNSTATE

MICROCOMPUTER LABORATORIES
OPERATING HOURS

STANDARD

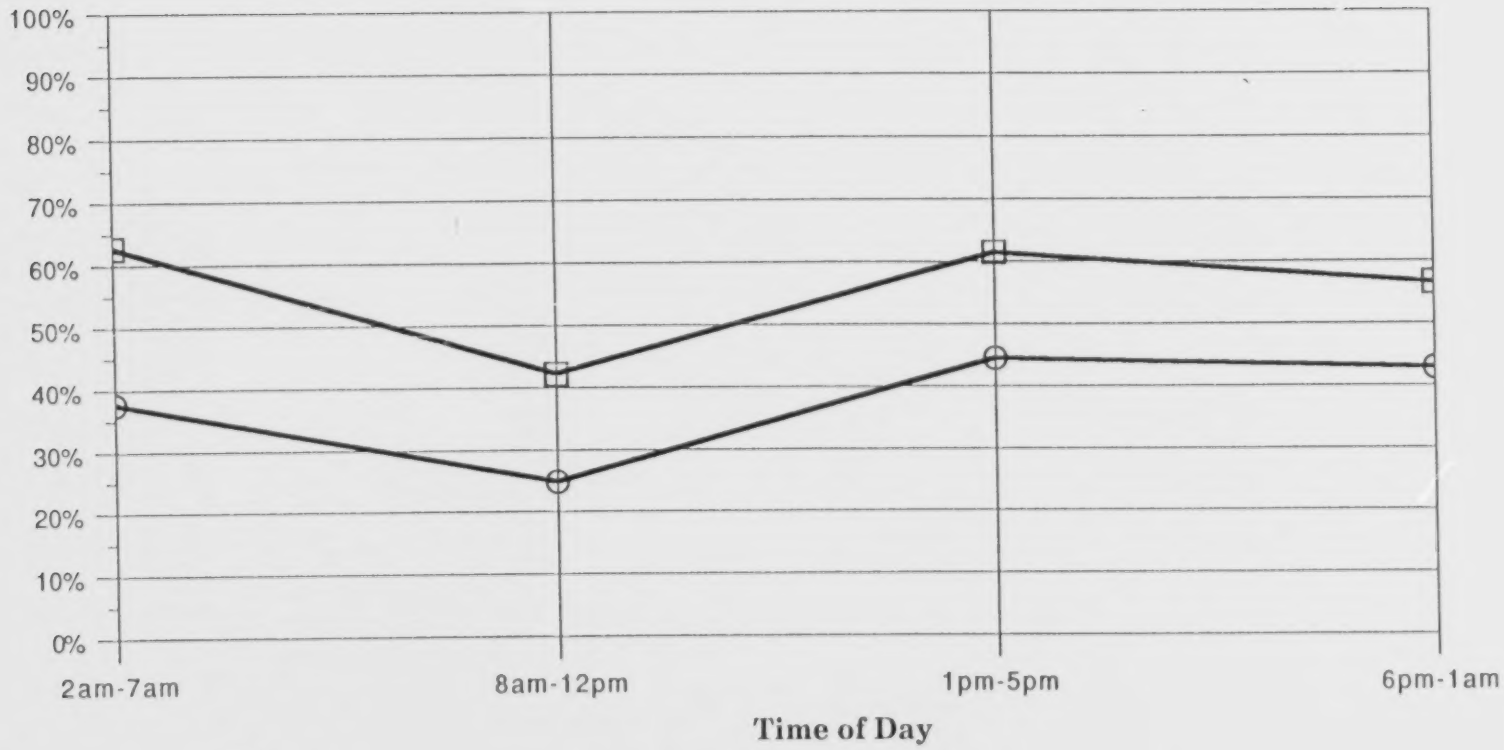
M-THUR	8AM - 1AM
F-SAT	8AM - 10PM
SUN	1PM - 1AM

24 HOUR LABS

AFTER THE 5TH WEEK OF THE SEMESTER

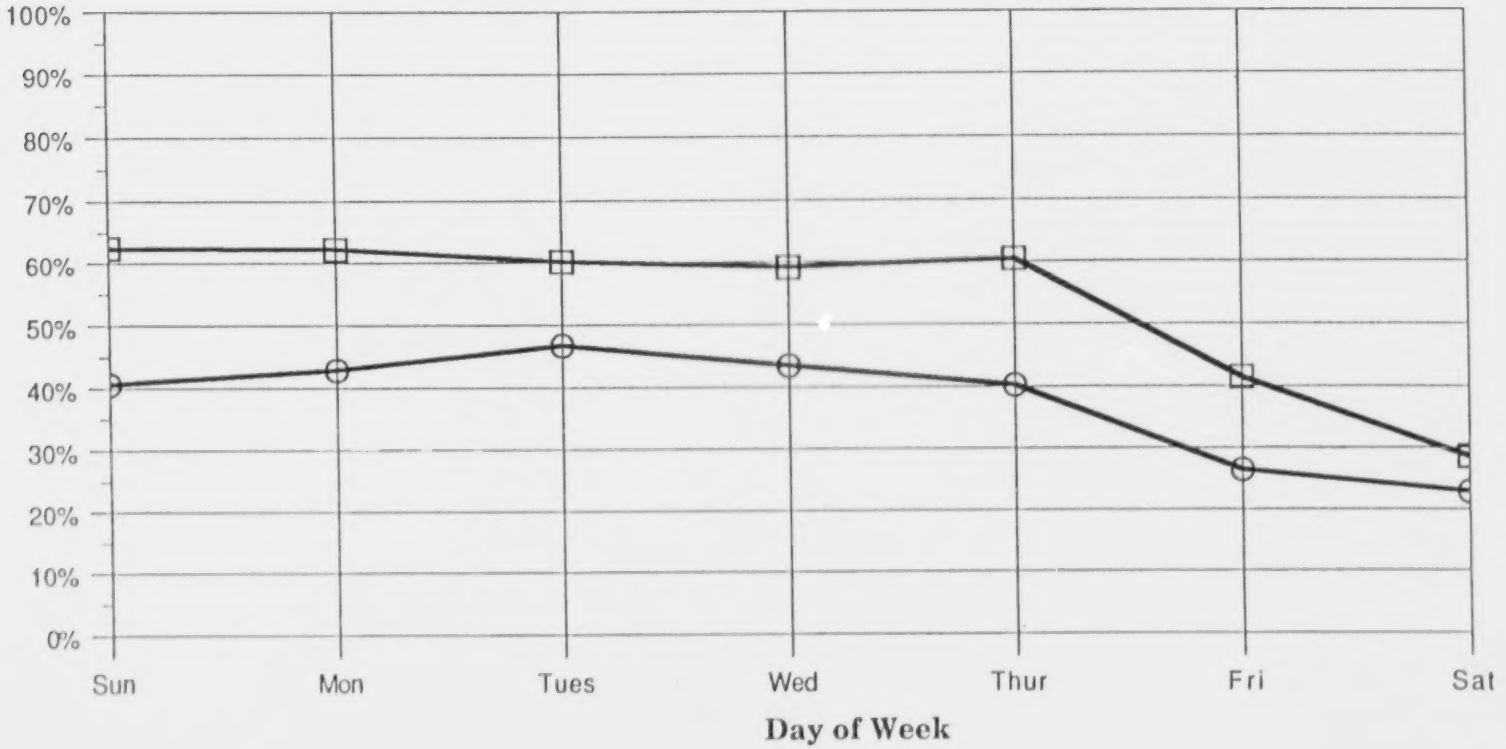
Fall Semester '89 (Oct 3 - Dec 13)

Average Usage By Time of Day (All Labs)



Fall Semester '89 (Oct 3 - Dec 13)

Average Usage By Day of the Week (All Labs)



Avg % MACs in Use

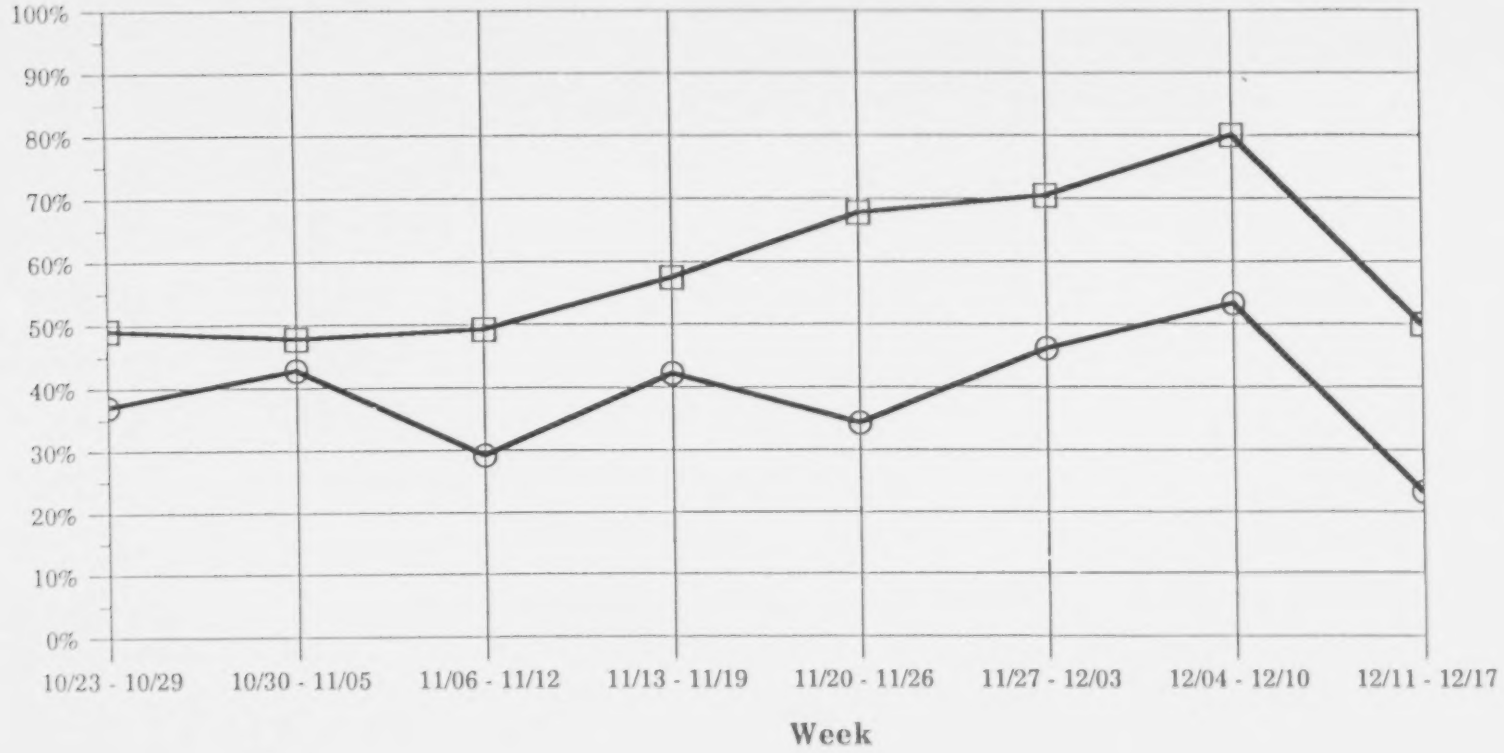
Avg % IBMs in Use

Macs in Labs = 240

IBMs in Labs = 200

Fall Semester '89 (Oct 23 - Dec 13)

Average Usage by Week of the Semester (All Labs)



Avg % MACs in Use

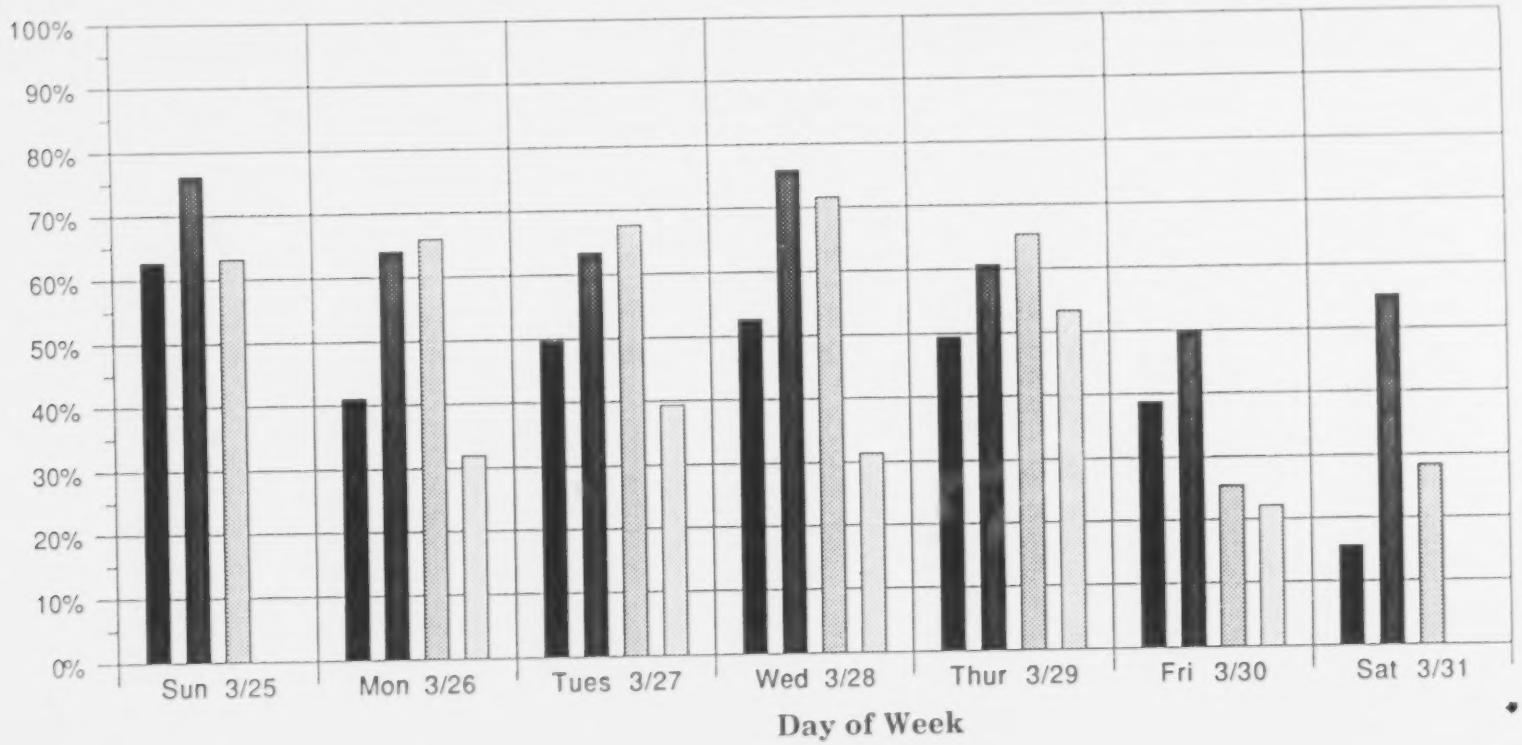
Avg % IBMs in Use

Macs in Lab = 240

IBMs in Lab = 200

Spring Semester '90 (Mar 25 - Mar 31)

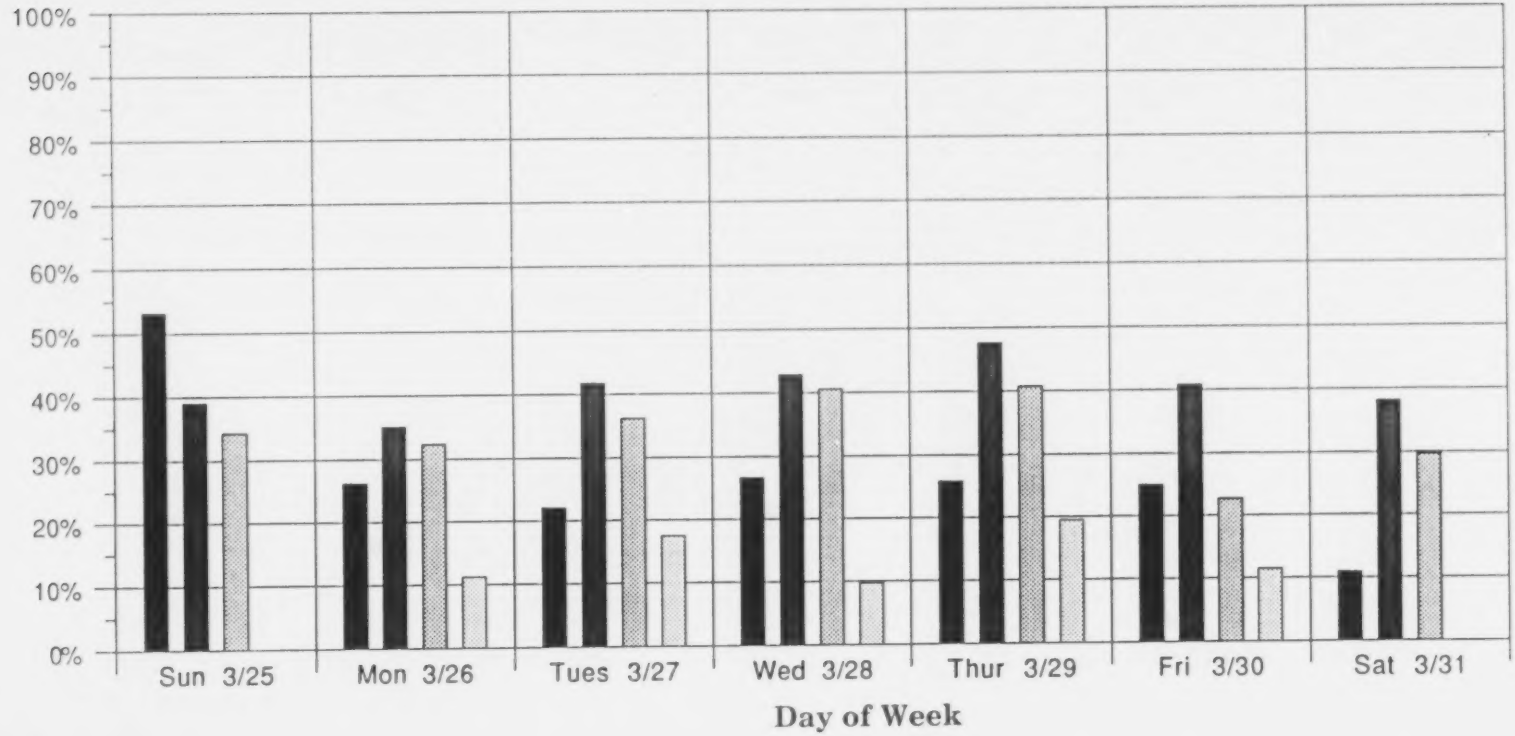
Average Mac Usage By Day of the Week & Time of Day (All Labs)



Spring '90.2 Updated 04/06/90 (17:45)

Spring Semester '90 (Mar 25 - Mar 31)

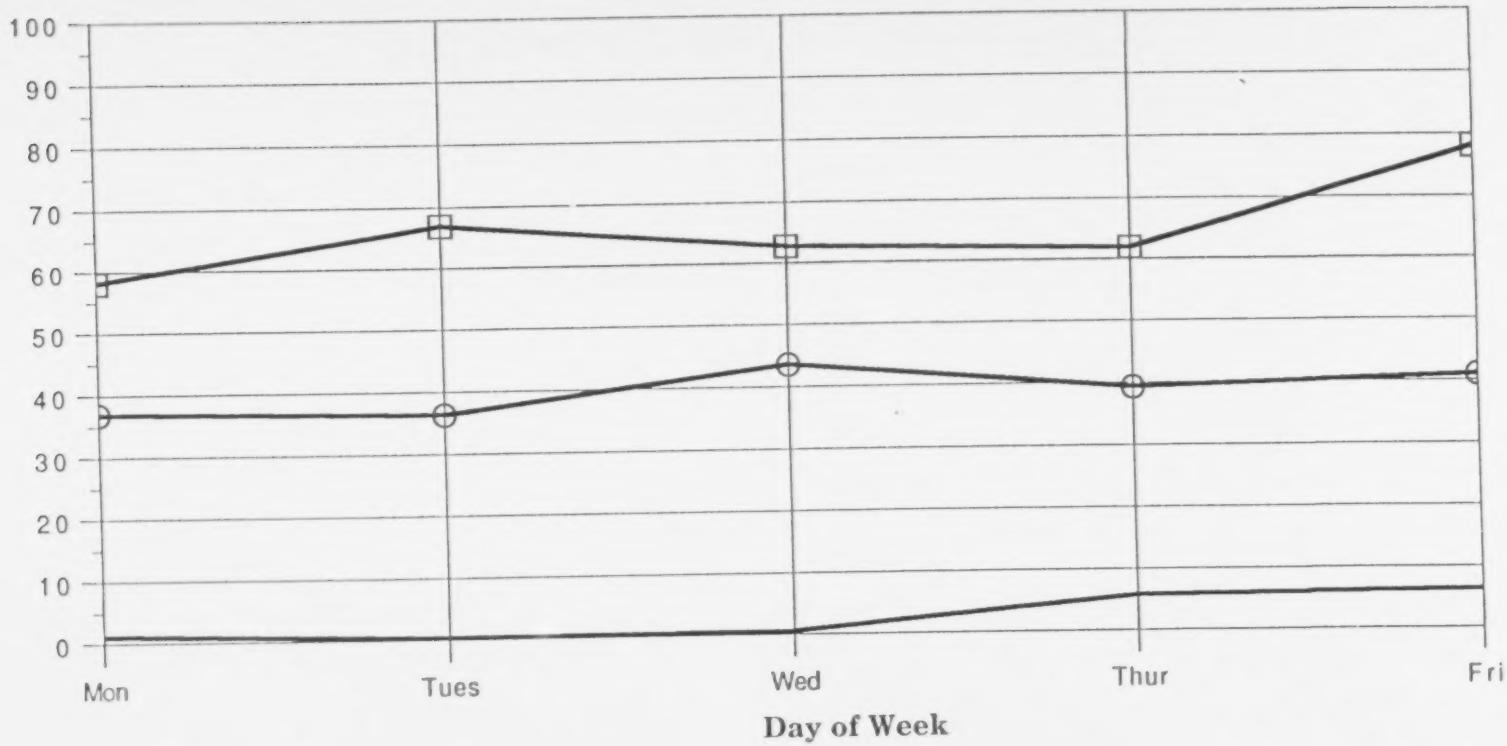
Average IBM Usage By Day of the Week & Time of Day (All Labs)



Spring 90.3 Updated 04/10/90 (13:45)

Fall Semester '89 (Oct 23 - Dec 13)

Redifer Lab Average Usage During the Hours 2am-7am



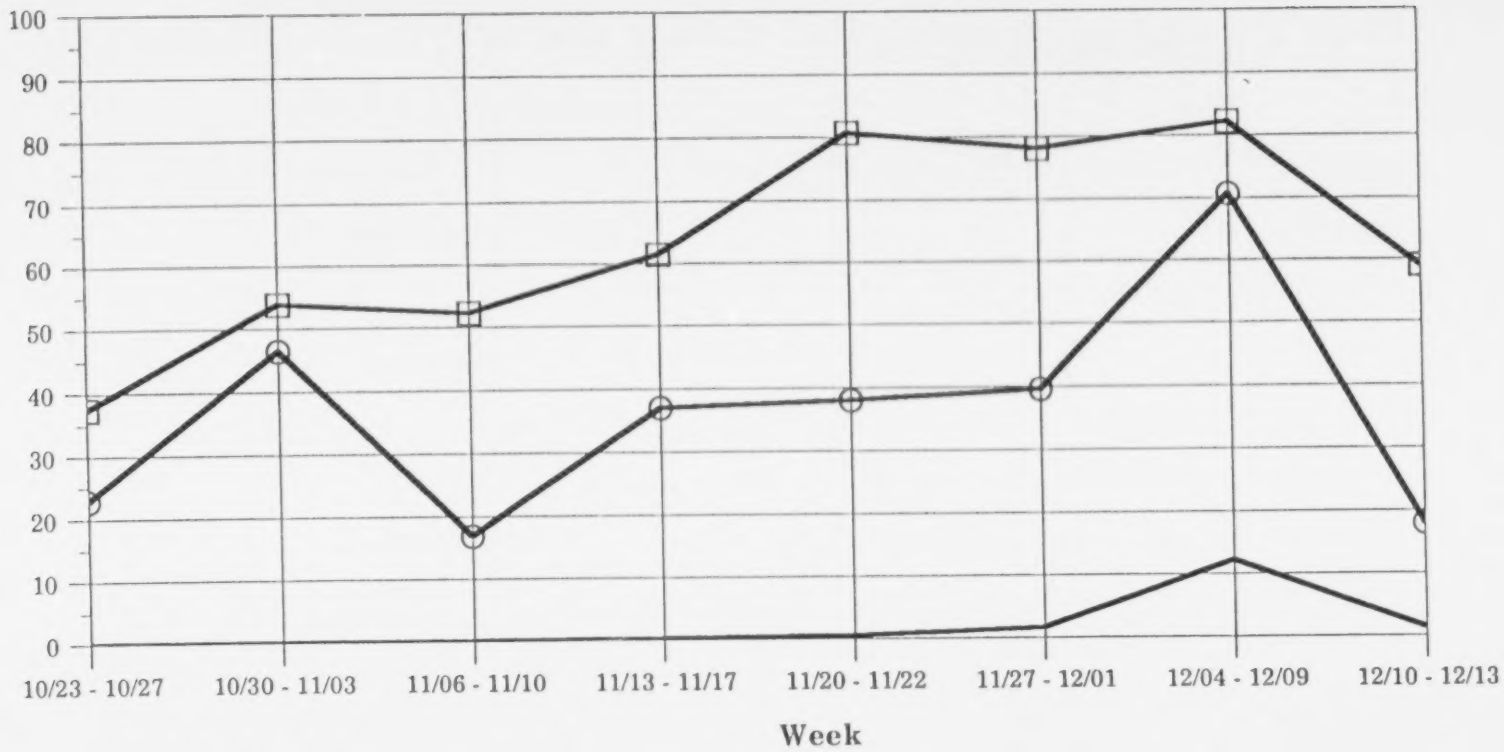
⊟ Avg % MACs in Use
⊖ Avg % IBMs in Use
— Avg # of People Waiting

Macs in Lab = 44

IBMs in Lab = 20

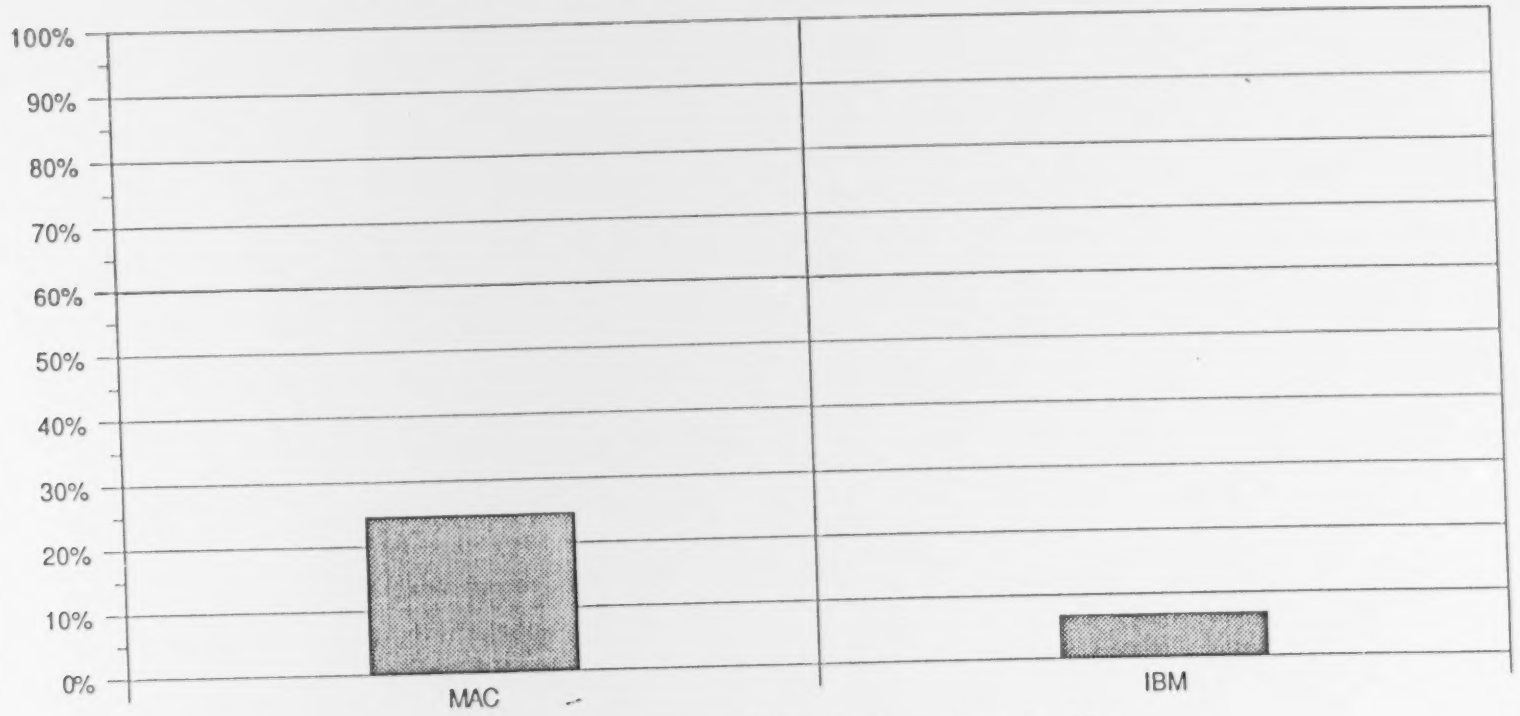
Fall Semester '89 (Oct 23 - Dec 13)

Redifer Lab Average Usage During the Hours 2am-7am



Fall Semester '89 (Oct 23 - Dec 13)

Redifer Lab Usage During the Hours 2am-7am



% Times Micros Were 100% In Use

Macs in Lab = 44

IBMs in Lab = 20

MICROCOMPUTER LABORATORIES

LAB ATTENDANTS

STUDENTS

- 1 TO 2 DEPENDING ON TIME
- 2 IN 24 HOUR LABS

PHYSICAL SECURITY

PRINTERS

MICROCOMPUTER LABORATORIES

LAB ATTENDANTS

EQUIPMENT

CONSULTING

DISKS

PENNSTATE

MICROCOMPUTER LABORATORIES

HANDICAP ACCESS

ALL LABORATORIES PROVIDE ACCESS FOR THE HANDICAPPED

PENNSTATE

MICROCOMPUTER LABORATORIES
CAPABILITIES

STAND ALONE

LOCAL AREA NETWORK

MAINFRAME CONNECTION

MICROCOMPUTER LABORATORIES

HARDWARE

APPLE IIE

MAC SE

IBM XT

IBM PS/2 MODEL 30

IBM PS/2 MODEL 40Z

AT&T 6300

NEXT

SUN

TERMINALS

PENNSTATE

MICROCOMPUTER LABORATORIES

LASER QUALITY/DOT MATRIX PRINTING

SOFTWARE PACKAGES

INSTRUCTIONAL USES

MICROCOMPUTER LABORATORIES

SOFTWARE

DATA BASES

STATISTICAL PACKAGES

SPREADSHEETS

EDITORS

GRAPHICS

LANGUAGES

TUTORIALS

WORD PROCESSING

MICROCOMPUTER LABORATORIES

PRINTING

DOT MATRIX

- FREE
- TOSHIBA
- IMAGEWRITER

LASER

- COST RECOVERY
- OFF NETWORK

PENNSTATE

MICROCOMPUTER LABORATORIES

PRINTING

LASER

- 25 CENTS PER PAGE
- APPLE LASER WRITER
- VENDA CARD SYSTEM

MICROCOMPUTER LABORATORIES
LOCAL AREA NETWORK

APPLE TALK

MAC II FILESERVER

BANYAN/VINES

BANYAN FILE SERVER

PENNSTATE

MICROCOMPUTER LABORATORIES

VIRUSES

1,000 DISKS PER WEEK

100,000 DISKS SINCE 1 JAN 90

STUDENTS CHECK

LAB ATTENDANTS CHECK

SYSTEM SOFTWARE CHECK

MICROCOMPUTER LABORATORIES

VIRUSES

LESS THAN 1% INFECTED

DISKS ARE REFORMATTED

VIRUS COMMITTEE

C.A.C. Virus Frequency Report

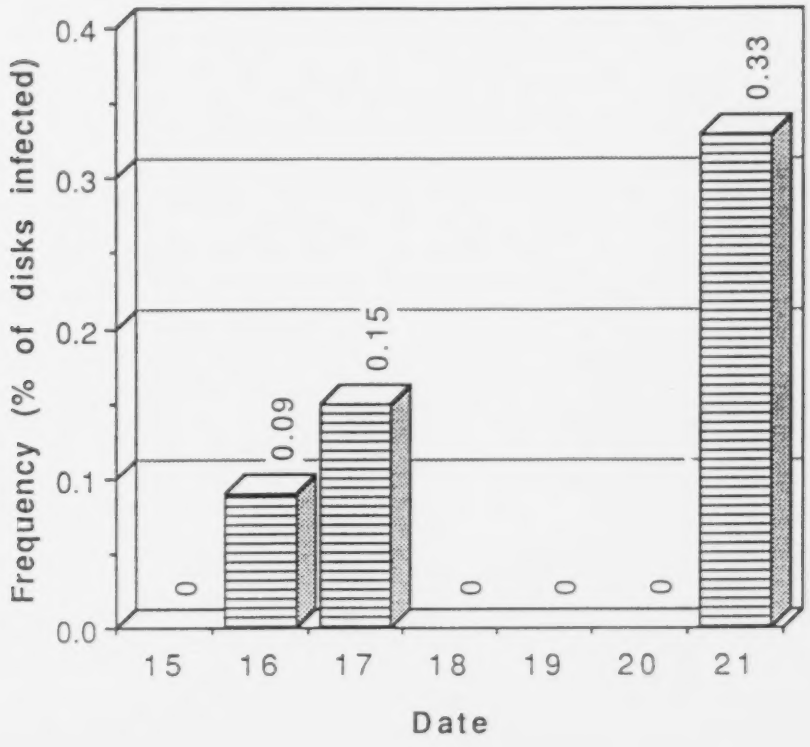
April 15th - April 21st
&
March 25th - April 21st Summary

Brian J. Hoffman
April 26, 1990

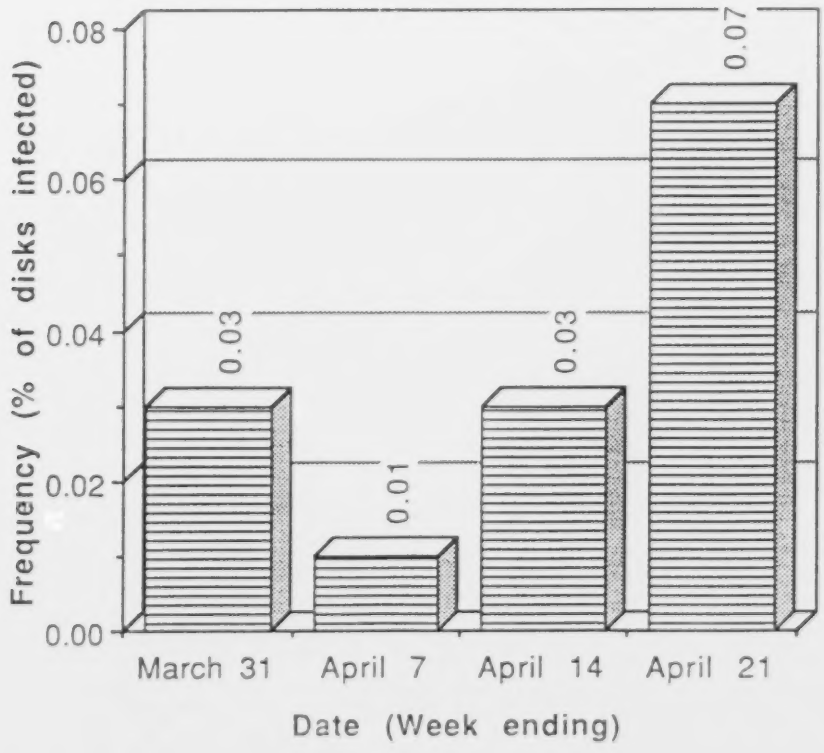
To:				
	GMS	_____(2)	RSV	_____
	JNK	✓	CWA	_____
	ALW	_____	CFJ	_____
	JCA	_____	JGA	_____
	AEB	_____	BLL	_____
	HKR	_____	CLK	_____
	MER	_____		_____

Comments:

April 15 - April 21 Virus Frequency



Previous Month Data Summary



April 15th - April 21st Virus Data

TOTALS

Date	#Disks	%Infected	nVIR	INIT29	Scores	ANTI	Peace	WDEF	Totals
15-Apr	566	0.00	0	0	0	0	0	0	0
16-Apr	1128	0.09	1	0	0	0	0	0	1
17-Apr	1291	0.15	1	0	0	0	0	1	2
18-Apr	1157	0.00	0	0	0	0	0	0	0
19-Apr	1293	0.00	0	0	0	0	0	0	0
20-Apr	901	0.00	0	0	0	0	0	0	0
21-Apr	604	0.33	1	1	0	0	0	0	2
Totals	6940	0.07	3	1	0	0	0	1	5
Jan. 1st to date	91789	0.78	53	1	0	3	1	655	713

BJH 4/26/90

Previous Month Data Summary

TOTALS

Week	#Disks	%Infected	nVIR	INIT29	Scores	ANTI	Peace	WDEF	Totals
Mar. 25 - Mar. 31	6959	0.03	0	0	0	0	0	2	2
April 1 - April 7	7226	0.01	0	0	0	0	0	1	1
April 8 - April 14	7276	0.03	2	0	0	0	0	0	2
April 15 - April 21	6940	0.07	3	1	0	0	0	1	5
Totals	28401	0.04	5	1	0	0	0	4	10

MICROCOMPUTER LABORATORIES

ORDER CENTER

FOR FULLTIME FACULTY/STAFF/STUDENTS

SOFTWARE PURCHASING FOR MICROCMPUTERS

HARDWARE PURCHASING FOR MICROCOMPUTERS

CONSULTATION ON SYSTEM CONFIGURATIONS

PENNSTATE

MICROCOMPUTER LABORATORIES

ORDER CENTER

FOR FULLTIME FACULTY/STAFF/STUDENTS

SOFTWARE PURCHASING FOR MICROCOMPUTERS

HARDWARE PURCHASING FOR MICROCOMPUTERS

PENNSTATE

MICROCOMPUTER LABORATORIES
ORDER CENTER

CONSULTATION ON SYSTEM CONFIGURATIONS

EDUCATIONAL DISCOUNTS

SYSTEM SETUPS

PENNSTATE

STUDENT SUPPORT INITIATIVE

SCANNING

ON APPOINTMENT BASIS

PAGE LAY OUT CONSULTING

PICTURES

- GREY SCALE
- LINE ART
- BIT MAP ART

PENNSTATE

STUDENT SUPPORT INITIATIVE

SCANNING

SUPPORTED APPLICATIONS

- READY, SET, GO!
- MICROSOFT WORD
- MACWRITE II
- MACDRAW
- MACDRAW II
- MACPAINT
- FULLPAINT

PENNSTATE

STUDENT SUPPORT INITIATIVE
FILE CONVERSION

APPLICATION TO APPLICATION

MACINTOSH MICROSOFT WORD TO ANOTHER MACINTOSH WORD PROCESSOR

IBM DISPLAY/WRITE IV TO IBM WORDPERFECT

PENNSTATE

STUDENT SUPPORT INITIATIVE

FILE CONVERSION

ACROSS DIFFERENT ENVIRONMENTS

IBM WORDPERFECT TO MACINTOSH MICROSOFT WORD

PENNSTATE

STUDENT SUPPORT INITIATIVE

DISK AND FILE RECOVERY

HAVE YOU ACCIDENTALLY DELETED A FILE AND THEN GASP IN HORROR BECAUSE YOU REALIZED IT WAS ACTUALLY SOMETHING THAT YOU NEEDED ?

PENNSTATE

STUDENT SUPPORT INITIATIVE

DISK AND FILE RECOVERY

BAD DISKS

- SECTOR NOT FOUND
- READ ERROR
- DAMAGE ERROR
- NOT A MACINTOSH DISK
- DIRECTORY DAMAGED
- I/O ERROR

PENNSTATE

STUDENT SUPPORT INITIATIVE

DISK AND FILE RECOVERY

BAD FILES

- ACCIDENTALLY DELETED FILES
- UNEXPECTED END OF FILE
- DOCUMENT REFLOW ERROR
- CAN'T READ FILE FROM DISK

STRATEGIC PLANNING

3 YEAR ACADEMIC COMPUTING PLAN

1 YEAR UPDATES
YEARLY BUDGET CYCLE

FACULTY ADVISORY COMMITTEE
APPOINTED BY PROVOST

STRATEGIC PLANNING

LINKS TO CAMPUS/DEPARTMENT PLANS

DATA COLLECTION

- HOURLY LAB COUNTS
- SURVEY OF LAB USERS EACH SEMESTER
- STUDENT SURVEYS ANNUALLY

STUDENT GOVERNMENT ORGANIZATIONS